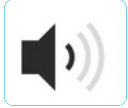




**Elefine**



Low Noise



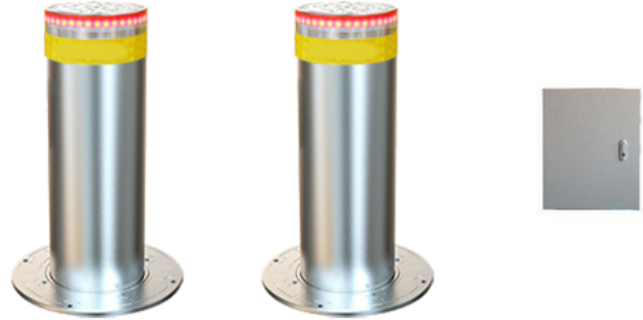
Fast Speed



Convenient Control



Safe and Reliable



## Hydraulic Bollard Barrier System

### EF-ABO3

EF-ABO3 Hydraulic bollard barrier system is widely used in airports, customs, ports, embassies, military bases, banks, prisons, government buildings, parking lots, etc. to control vehicle access. Through the control system, the bollards are hydraulically driven up and down quickly.

EF-ABO3 adopts hydraulic drive technology, which is stable and fast. The operation is simple and flexible. It has strong load-bearing and anti-collision capability, low noise, safe and reliable.



## Product highlights

### > Fast speed and low noise

The fastest time of lifting is 2-4 seconds, adjustable. With a hydraulic drive unit, its operation is low noise.

### > Convenient Control

The control unit uses a versatile logic controller, with a variety of functional modes to meet different requirements of clients. The movement can be set to time controlled and the user can freely control the lift height to save energy consumption.

### > Unique Design

The core part of the hydraulic unit and mechanical mechanism is integrated. Mechanical energy can be effectively transmitted to the hydraulic drive unit, and the operation is efficient. A hydraulic unit is a unique design to increase the pressure directly.

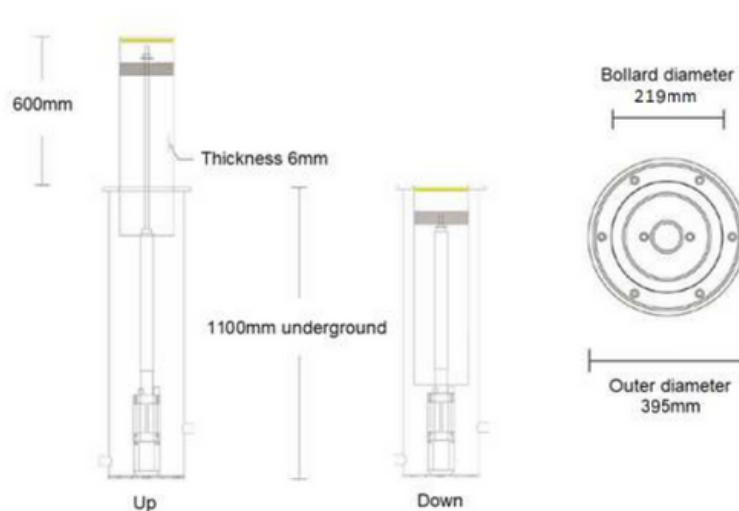
### > Safe and Reliable

In case of a power outage and another emergency, the bollards can be controlled manually by the emergency button to decrease. Top and bottom internal fixed parts are equipped with a current detection sensor and a magnetic sensor respectively, to avoid over-current and limit the bollard movement.

## Structure and components

### Bollard body

The bollard body is mainly composed of a lifting cylinder and a machine base. The bollard body is made of 304 stainless steel. It is made of a 6mm thick seamless steel pipe, with high strength bearing and impact resistance. It is equipped with yellow reflective tape and high-bright LED light.



### Hydraulic moving core

The hydraulic core consists of a fuel tank, a motor, and an oil pump. It is the power source of the hydraulic bollard barrier system. It is installed inside the bollard body and used together with the bollard. The rising and falling speed can be changed by the regulating valve. In case of a power cut, it can be manually lowered by the backup power supply.

### Electronic controller

It includes a master control board, auxiliary control board, leakage switch, non-contact noise long-life contactor, and precise starting time setting (To increase the service life of the cylinder by avoiding the impact force generated when the cylinder stops). Automatically rising is an option (by adding the ground sensor). Automatic controller: including control box, remote control, manual button, etc.



## Specifications

General Specification	
Control System	Electric Hydraulic
Power consumption	350W per bollard
Maximum bearing capacity	150 tons
Opening time	2-4s (adjustable)
Closing time	2-4s (adjustable)
Communication	RS485
Bollard height after rising	600 mm
Bollard diameter	219 mm
Warning sign	Yellow reflective tape and high-bright LED light
Remote control distance	30m
Hydraulic pressure	50 KFG, maximum 70 KFG
Others	
Power supply voltage	Electric Hydraulic
Working temperature	350W per bollard
Storage requirement	150 tons
Working humidity	2-4s (adjustable)

